




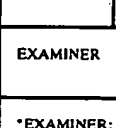


Form PTO-1449		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. PC3-061		PRIORITY SERIAL NO. 09/966,158		
LIST OF ART CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT Yuichi Iikubo, et al.				
				PRIORITY FILING DATE 9/28/2001		PRIORITY GROUP 1621		
U.S. PATENT DOCUMENTS								
*Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate		
	AA	2,494,064	01/50	Simons, et al.				
	AB	2,005,706	06/35	H.W. Daudi, et al.				
	AC	2,005,707	06/35	H.W. Daudi, et al.				
	AD	2,576,823	11/51	A.F. Benning, et al.				
	AE	2,697,124	12/54	R.M. Mantell, et al.				
	AF	2,900,423	08/59	L.B. Smith, et al.				
	AG	2,942,036	06/60	L.B. Smith, et al.				
	AH	3,258,500	06/66	F.W. Swamer, et al.				
	AI	3,436,430	04/69	L.E. Hall, et al.				
	AJ	3,636,173	01/72	L.E. Gardner				
	AK	3,803,241	04/74	I. Stolk, et al.				
	AL	4,158,023	06/79	von Halasz				
	AM	5,043,491	08/91	Webster, et al.				
	AN	5,057,634	10/91	Webster, et al.				
		AO	5,068,472	11/91	Webster, et al.			
		AP	5,068,473	11/91	Kellner, et al.			
FOREIGN PATENT DOCUMENTS								
	Document Number	Date	Country	Class	Subclass	Translation		
						Yes	No	
	AQ	1,162,511	05/91	CA				
	AR	2,081,813	10/92	CA				
	AS	0 349 115 A1	01/90	EP				
	AT	0 434 407 A1	06/91	EP				
	AU	0 442 075 B1	08/93	EP				
OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, Etc.)								
	AV	Herbert O. House, "Catalytic Hydrogenation and Dehydrogenation," Modern Synthetic Reactions, 2 <sup>nd</sup> ed., The Benjamin/Cummings Publications						
		Company (Menlo Park, CA), p. 14						
EXAMINER				DATE CONSIDERED 6/26/06				
<small>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</small>								

Form PTO-1449		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. PC3-061	PRIORITY SERIAL NO. 09/966.138		
LIST OF ART CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT Yuichi Iikubo, et al.			
				PRIORITY FILING DATE 9/28/2001	PRIORITY GROUP 1621		
U.S. PATENT DOCUMENTS							
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
28	AA	5,146,018	09/92	Kellner, et al.	1	1	
	AB	5,171,901	12/92	Gassen, et al.			
	AC	5,177,273	01/93	Bruhke, et al.			
	AD	5,220,083	06/93	Webster, et al.			
	AE	5,268,343	12/93	Hopp, et al.			
	AF	5,364,992	11/94	Manogue, et al.			
	AG	5,430,204	07/95	Manogue, et al.			
	AH	5,446,219	08/95	Manogue, et al.			
	AI	5,621,151	04/97	Manogue			
	AJ	5,621,152	04/97	Jansen, et al.			
	AK	5,723,699	03/98	Miller, et al.			
	AL	5,902,911	05/99	Rao, et al.			
	AM	5,919,994	07/99	Rao			
	AN	6,018,083	01/00	Manogue, et al.			
	AO	6,156,944	12/00	Pham, et al.			
	AP	6,211,135	04/01	Miller, et al.			
FOREIGN PATENT DOCUMENTS							
		Document Number	Date	Country	Class	Subclass	Translation Yes No
28	AQ	0 539 989 A1	05/93	EE			
	AR	91/05752	05/91	WO			
	AS	96/17813	06/96	WO			
	AT	98/50327	11/98	WO			
	AU	99/26907	06/99	WO			
OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, Etc.)							
28	AV	Dmitrii D. Moldavskii, "Technology for the Preparation of Perfluoro-Organic Compounds," <i>Journal of Fluorine Chemistry</i> , Elsevier Science S.A. (Netherlands), Vol. 94 (No. 2), p. 157-167, (February 5, 1999).					
EXAMINER				DATE CONSIDERED 6/26/06			
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<b>LIST OF ART CITED BY APPLICANT</b> (Use several sheets if necessary)				APPLICANT Yulchi Iikubo, et al.				
				PRIORITY FILING DATE 9/28/2001	PRIORITY GROUP 1621			
<b>U.S. PATENT DOCUMENTS</b>								
*Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate		
	AA							
<b>FOREIGN PATENT DOCUMENTS</b>								
		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
	AB	99/62851	12/99	WO				
	AC	428,361	09/30	UK				
	AD	428,445	05/35	UK				
	AE	468,447	08/37	UK				
	AF	790,335	02/58	UK				
	AG	1,077,932	08/67	UK				
	AH	1,359,023	07/74	UK				
	AI	1,578,933	11/80	UK				
	AJ							
<b>OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, Etc.)</b>								
	AK	J. Kvicala, et al., "Preparation of Perhalogenated Chlorofluoropropanes by Halogen Exchange in the Liquid and Vapour Phases and Their Isomer Analyses by 19F NMR Spectroscopy," <i>Journal of Fluorine Chemistry</i> , Elsevier Sequoia (Netherlands), p. 155-175, (February 5, 1989).						
	AL	F.J. Mettelle, et al., "Methods for the Introductions of Hydrogen Into Fluorinated Compounds," <i>Fluorine Chemistry Reviews</i> , 1 <sup>st</sup> ed., Vol. 1, (No. 2), p. 315-358, (February 5, 1967).						
	AM	Dr. Mark D. Cisneros, et al., "An Integrated Approach to Achieve Low Environmental Impact in the Special Hazards Fire Suppression Industry," Great Lakes Chemical Corporation (West Lafayette, Indiana), p. 1-8.						
	AN	Viacheslav A. Petrov, et al., "Isomerization of Halopolyfluoroalkanes by the Action of Aluminum Chlorofluoride," <i>Journal of Fluorine Chemistry</i> , Elsevier Science S.A. (Netherlands), p. 125-130, (February 5, 1998).						
	AO	B.P. Aggarwal, et al., "Chlorination of Propane and Propylene and Pyrolysis of Perchloropropane," <i>Petroleum &amp; Hydrocarbons</i> , Vol. 3 (No. 2), p. 69-72, (July 5, 1968).						
	AP	Albert L. Henne, et al., "Fluorinated Derivatives of Propane and Propylene," p. 496-497, (March 5, 1946).						
EXAMINER				DATE CONSIDERED		6/28/06		
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.								

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LIST OF ART CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT Yuichi Iikubo, et al.		
				PRIORITY FILING DATE 9/28/2001	PRIORITY GROUP 1621	
U.S. PATENT DOCUMENTS						
*Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	AA					
FOREIGN PATENT DOCUMENTS						
	Document Number	Date	Country	Class	Subclass	Translation
						Yes No
	AB					
	AC					
	AD					
	AE					
	AF					
	AG					
	AH					
	AI					
	AJ					
OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, Etc.)						
	AK		Kirk-Othmer, "Encyclopedia of Chemical Technology," <i>Catalysis</i> , 3 <sup>rd</sup> ed., John Wiley & Sons (New York), p. 16-18.			
	AL		Milos Hudlicky, "Chemistry of Organic Fluorine Compounds, A Laboratory Manual with Comprehensive Literature Coverage," 2 <sup>nd</sup> ed., Ellis Horwood (New York), p. 170-179, (February 8, 1992).			
	AM					
	AN					
	AO					
	AP					
EXAMINER		DATE CONSIDERED				
				6/26/06		
<p>*EXAMINER: Initial reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>						

Form PTO-1449		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. PCJ-081		SERIAL NO. 10698,731	
LIST OF ART CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT Yoshi Tsubota, et al.			
				FILING DATE 10/31/2003		GROUP Unknown	
U.S. PATENT DOCUMENTS							
*Examiner Initials		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	AA	6,281,395	8/28/2001	Nappa et al.			
	AB	6,376,717	4/25/2002	Rao et al.			
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
FOREIGN PATENT DOCUMENTS							
		Document Number	Date	Country	Class	Subclass	Translation Yes      No
	AN						
	AO						
	AP						
	AQ						
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)							
	AR						
	AS						
	AT						
EXAMINER				DATE CONSIDERED 6/26/06			
<small>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</small>							

Form PTO-1449

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

LIST OF ART CITED BY APPLICANT  
(Use several sheets if necessary)

ATTY. DOCKET NO.  
P3-01

SERIAL NO.  
1049271

APPLICANT  
Yipeng Zhang, et al.

ST PAT DATE  
10/1/2003

ORIGIN  
US

U.S. PATENT DOCUMENTS

Document Initial	Document Number	Date	Name	Class	Subject	Citing Page if Applicable
AA	2,674,024	1/10/1980	Stroed et al.			
AB						
AC						
AD						
AE						
AF						
AG						
AH						

FOREIGN PATENT DOCUMENTS

Document Number	Date	Country	Class	Subject	Translation
					Yes No
AM	072,593	8/1/1962	IPC		
AN	CO 01,339,984 A1	4/19/1997	IPC		
AO	04551553	10/24/1999	IPC		
AP					
AQ					

OTHER REFERENCES (including Author, Title, Date, Publication Page, Etc.)

Document Initial	Reference
AR	"Technology of Polymers" Library: CRC Press Vols. 24-26; pp. 8-11, and 18-19.
AS	
AT	

EXAMINER: *[Signature]* DATE FORWARDED: 6/26/06

EXAMINER: Indicate if reference considered, whether or not citation is in accordance with MPEP 602.01 through 602.04 in information and not considered. Include copy of this form with initial communication to applicant.

Sheet 1 of 1

Form PTO-1449		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. PCJ-001		SERIAL NO. 10098731	
LIST OF ART CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT Yuichi Kikuchi et al.			
				FILING DATE October 31, 2003		GROUP (A1)	
U.S. PATENT DOCUMENTS							
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Applicable
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
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	AJ						
	AK						
	AL						
FOREIGN PATENT DOCUMENTS							
		Document Number	Date	Country	Class	Subclass	Translation
	AM	PCT/JP02/0779	04/17/2002	PCT-International Preliminary Examination Report			Yes No
	AN						
	AO						
	AP						
	AQ						
OTHER REFERENCES (including Author, Title, Date, Foreign Patent, Etc.)							
	AR						
	AS						
	AT						
EXAMINER	GJP		NOTE CONSIDERED		6/26/06		
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicants.							



Form PTO-1449		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE			ATTY. DOCKET NO. PC3-061		SERIAL NO. 10/698,731	
LIST OF ART CITED BY APPLICANT (Use several sheets if necessary)					APPLICANT Yuichi Iikubo et al.			
					FILING DATE October 31, 2003		GROUP 1621	
U.S. PATENT DOCUMENTS								
* Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate		
           	AA	4,876,405	0/24/89	Gervasutti	570	156		
	AB	5,523,501	06/04/96	Kellner et al.	570	176		
	AC							
	AD							
	AE							
	AF							
	AG							
	AH							
	AI							
	AJ							
	AK							
	AL							
FOREIGN PATENT DOCUMENTS								
	Document Number	Date	Country	Class	Subclass	Translation		
    	AM	698,386	10/14/53	Great Britain			Yes	No
	AN	PCT/US2004/023917	07/22/04	Int'l Search Report				
	AO	PCT/US2004/023917	07/22/04	Written Opinion				
	AP							
	AQ							
OTHER REFERENCES (including Author, Title, Date, Previous Pages, Etc.)								
	AR							
	AS							
EXAMINER		DATE CONSIDERED 4/26/06						
<p>* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>								



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LIST OF ART CITED BY APPLICANT (Use several sheets if necessary)					APPLICANT: Yulchi I kubo, et al		
					FILING DATE October 31, 2003	GROUP 1621	
U.S. PATENT DOCUMENTS							
Examiner's Initials	AA	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
	AA	1,132,636	03/1915	Taylor, et al			
	AB	1,926,396	09/1933	T. Midgley, Jr.			
	AC	1,926,396	09/1933	Midgley, Jr.			
	AD	2,021,981	11/1935	Bichowsky			
	AE	2,413,696	01/1947	Downing, et al			
	AF	2,456,028	12/1948	Simons			
	AG	2,519,983	08/1950	Simons			
	AH	3,080,430	03/1963	Cohen			
	AI	3,479,286	11/1969	Gambarello, et al			
	AJ	3,656,553	04/1972	Rainaldi, et al			
	AK	3,715,438	02/1973	Huggelt			
	AL	3,822,207	07/1974	Howard, et al			
	AM	3,844,354	10/1974	Larsen			
	AN	4,014,799	03/1977	Owens			
	AO	4,228,404	09/1980	Dietrich, et al			
	AP	4,226,728	10/1980	Kung			
	AQ	4,448,923	05/1984	Martin			
	AR	4,459,213	04/1972	Uchida, et al			
	AS	4,536,298	08/1985	Kamel, et al			
	AT	4,668,407	05/1987	Gerard, et al			
AU	4,810,403	03/1989	Blvens, et al				
AV	4,826,610	05/1989	Thacker				
EXAMINER		DATE CONSIDERED <u>6/26/06</u>					
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LIST OF ART CITED BY APPLICANT (Use several sheets if necessary)					APPLICANT: Yuichi Ikubo, et al		
					FILING DATE October 31, 2003	GROUP 1621	
U.S. PATENT DOCUMENTS							
*Examiner's Initials	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate	
	AA	4,851,595	07/1989	Gumprecht			
	AB	4,876,405	10/1989	Gervasutti			
	AC	4,937,398	06/1990	Tung, et al			
	AD	4,945,119	07/1990	Smits, et al			
	AE	4,954,271	09/1990	Green			
	AF	5,040,609	08/1991	Dougherty, et al			
	AG	5,084,190	01/1992	Fernandez			
	AH	5,115,868	06/1992	Dougherty Jr., et al			
	AI	5,141,654	08/1992	Fernandez			
	AJ	5,523,501	08/1998	Kellner, et al.			
	AK	5,582,881	10/1998	Nimitz, et al.			
	AL	5,730,894	03/1998	Minor			
	AM	6,065,547	05/2000	Ellis, et al.			
	AN	6,291,729	09/2001	Rao			
	AO	6,346,203 B1	02/2002	Robin, et al.			
	AP	6,461,530	10/2002	Robin, et al.			
	AQ	6,478,979	11/2002	Rivers, et al.			
	AR	6,763,894	07/2004	Schoenrock			
		AS	6,894,194	02/2005	Robin, et al.		
		AT	6,418,248	05/1995	Krespan et al.		
EXAMINER		DATE CONSIDERED <u>6/26/06</u>					
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FOREIGN PATENT DOCUMENTS								
		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
9/1	AA	CA 902590A	08/1962	Canada	A	1		
	AB	EP 0 039 471 A1	11/1981	Europe				
	AC	EP 0 253 410	01/1998	EPO				
	AD	EP 0 383 443 A2	08/1990	Europe				
	AE	EP 0 434 409 A	06/1991	Europe				
	AF	EP 0 481 618 A1	04/1992	Europe				
	AG	EP 0 570 367 B1	01/1993	Europe				
	AH	RU 2066718 C1	08/1990	Russia				
	AI	1.546,505	09/1970	Germany				
	AJ	WO 91/02584	03/1991	WIPO				
	AK	WO 91/04766	04/1991	PCT				
	AL	WO 91/12853	08/1981	PCT				
	AM	WO 93/24586	12/1993	PCT				
	AN	WO 96/37043	08/1998	PCT				
	AO	WO 96/40834	12/1996	PCT				
AP	WO 03/029173	04/2003	PCT					
AO	698,386	10/1953	UK					
AR	GB 1.132.836	11/1988	UK					
AS	JP 51034595	09/1974	Japan					
AT	JP 57-93070-A	06/1982	Japan					
9/2	AU	Laid Open Hel 1-116999	05/1989	Japan				
	AV							
EXAMINER <i>[Signature]</i>		DATE CONSIDERED <i>6/26/86</i>						
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LIST OF ART CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT: Yuichi Ikubo, et al			
				FILING DATE October 31, 2003		GROUP 1821	
FOREIGN PATENT DOCUMENTS, CONT.							
	AA	Sho 50-50884 (Laid Open Sho 51-131100)	04/1975	Japan			
	AB	Sho 48-19093	03/1973	Japan			
	AC	Sho 52-25679	07/1977	Japan			
	AD	Lai Open Hei 4- 96770	03/1982	Japan			
	AE						
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				FILING DATE October 31, 2003	GROUP 1621
OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, Etc.)					
	MA	McFarland, Mack, "Chlorofluorocarbons and ozone", 1989, <i>Environ. Sci. Technol.</i> , Vol. 23, No. 10, pp. 1203-1207			
	AB	Malcomb, J.E., "Report 1177 Interim Report Vaporizing Fire Extinguishing Agents". August 1950, <i>Engineer Research and Development Laboratories, Petroleum and Distribution Branch</i> , pp. i-90			
	AC	Wuebbles, Donald J., "The Relative Efficiency of a Number of Halocarbons for Destroying Stratospheric Ozone", January 1981, <i>Lawrence Livermore National Laboratory, University of California</i> , pp. 1-11			
	AD	Wuebbles, Donald J., "Chlorocarbon Emission Scenarios: Potential Impact on Stratospheric Ozone", February 1983, <i>Journal of Geophysical Research</i> , Vol. 88, No. C2, pp. 1433-1443			
	AE	Molina, et al., "Ultraviolet Absorption Cross Sections of Several Brominated Methane and Ethanes of Atmospheric Interest", February 1982, <i>J. Phys. Chem.</i> , 1982, 86, 2672-2678			
	AF	The United Nations Environment Program, Montreal Protocol Assessment, Technology Review, "Report of the Halons Technical Options Committee", June 1989, Draft for Peer Review			
	AG	Larsen, Eric R., "Halogenated Fire Extinguishants: Flame Suppression by a Physical Mechanism?", 1975, <i>Halogen Research Laboratory, The Dow Chemical Corporation, Midland, Michigan</i> , pp. 376-402			
	AH	Belles, Frank E., "Chemical Action of Halogenated Agents in Fire Extinguishing", 1951, <i>National Advisory Committee for Aeronautics, Technical Note 3565</i> , pp. 1-30			
	AI	Kauschka, Von Gunther, et al., "Calculation of thermodynamic substance data and reaction balance with poly- and perhalogen hydrocarbons", October 1976, <i>Chemistry Section of the Humboldt University in Berlin</i> , Vol. 10, pp. 1-22 (translated)			
	AJ	Moore, Jeanne P., et al., "Halon Alternatives Extinguishment Testing", 1989, <i>Center for Technologies to Protect Stratospheric Ozone, New Mexico Engineering Institute, University of New Mexico, Albuquerque, New Mexico</i> , presented at the International Conference on CFC & Halon Alternatives, October 10-11, 1989, Washington, D.C., pp. 1-8			
	AK	Smart, B.E., "Fluorocarbons", 1983, <i>The Chemistry of Functional Groups, Supplement D, Chapter 14</i> , pp. 603-655			
	AL	Chemical Encyclopedia, "Bolshaya Rossiiskaya Entsiklopediya" Moscow, 1992, <i>Scientific Publishing House</i> , Vol. 3, Med-Pol			
	AM	The United Nations Environment Program, Montreal Protocol Assessment, Technology Review, "Final Report of the Halons - Technical Options Committee", August 1989			
	AN	Reid, Robert C., "The properties of gases and liquids", 1987, pp. 153-157			
	AO	"Part IV The Evolution of the Montreal Protocol", 1987, Section 4.1 and 4.2, pp. 265-275			
	AP	Hynes, Robert G., et al., "Shock-Tube Study of the Pyrolysis of the Halon Replacement Molecule CF <sub>3</sub> CHFCF <sub>3</sub> ", 1989, <i>J. Phys. Chem. A</i> , Vol. 103, pp. 54-61			
	AO	Joint Assessment of Commodity Chemicals No. 24, <i>Pentafluoroethane (HFC 125), (E)-ETOC</i> May 1994, pp. 14-20			
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EXAMINER		DATE CONSIDERED 6/26/06			
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 608; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.					

Form PTO-1449		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. PC3-061	SERIAL NO. 10/698,731
LIST OF ART CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT: Yulchi Ikubo, et al	
				FILING DATE October 31, 2003	GROUP 1621
OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, Etc.)					
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LIST OF ART CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT: Yuichi Kubo, et al	
				FILING DATE October 31, 2003	GROUP 1621
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